

0068871

SAF-RC-001
Industrial Hygiene Sampling
FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG

06I-0292-01

SAF-RC-001

Rad only

☒ Chem only

Rad & Chem

☒ Complete

Partial

300 Area 303M Bldg

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Cover Page

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Report Identification Number: 06I-0292-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001 / R303M0 J451
Payroll#: 73513



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
24 Jan 2006	J10Y96	06I02359	NMAM 7300M	G060T00J	G WIPE
24 Jan 2006	J10Y95	06I02360	NMAM 7300M	G060T00J	G WIPE
24 Jan 2006	J10Y94	06I02361	NMAM 7300M	G060T00J	G WIPE
24 Jan 2006	J10Y93	06I02362	NMAM 7300M	G060T00J	G WIPE

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Name: Joanna C. Sanchez
Title: Chemist
Date: January 27, 2006



Case Narrative Page

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Report Identification Number: 06I-0292-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001 / R303M0 J451
Payroll#: 73513

General Set Information: There are 4 samples in set 06I-0292-01. The samples were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.02 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.2 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 3. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None were required.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: One sample in this batch was replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:
Final result for aqueous samples ($\mu\text{g}/\text{sample}$) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu\text{g}/\text{L}$)

B = Concentration factor from sample preparation

= $\frac{\text{Final Volume of Digestate (L)}}{\text{Sample}}$

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu\text{g}/\text{L}) \times (0.025 \text{ L}/\text{sample}) \times (1) = 0.025 \mu\text{g}/\text{sample}$

Miscellaneous Comments: None



Report Page

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Report Identification Number: 06I-0292-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303M0 J451

Payroll#: 73513

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium µg/sample		Cadmium µg/sample		Lead µg/sample	
J10Y96	06I02359	26 Jan 2006	0.022		<0.2	U	<3.	U
J10Y95	06I02360	26 Jan 2006	<0.02	U	<0.2	U	<3.	U
J10Y94	06I02361	26 Jan 2006	<0.02	U	<0.2	U	<3.	U
J10Y93	06I02362	26 Jan 2006	<0.02	U	<0.2	U	<3.	U
Limit of Detection (LOD)			0.02		0.2		3.	
Required Detection Limit (RDL)								

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.



QC Summary Page

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Report Identification Number: 06I-0292-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF: RC-001 / R303M0 J451
Payroll#: 73513

Batch ID: G060T00J

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240449-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
BL-240449-1	MB	Cadmium	µg/sample	ND	NA	NA	NA	NA
BL-240449-1	MB	Lead	µg/sample	ND	NA	NA	NA	NA
QC-240449-1	LCS	Beryllium	µg/sample	11.7	NA	10.0	117.	NA
QC-240449-1	LCS	Cadmium	µg/sample	33.1	NA	30.0	110.	NA
QC-240449-1	LCS	Lead	µg/sample	103.	NA	100.	103.	NA
QD-240449-1	LCSD	Beryllium	µg/sample	11.6	11.7	10.0	116.	0.845
QD-240449-1	LCSD	Cadmium	µg/sample	32.9	33.1	30.0	110.	0.414
QD-240449-1	LCSD	Lead	µg/sample	103.	103.	100.	103.	0.109

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

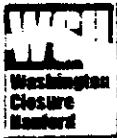
MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST														
Collector: Yetta Jones			Company Contact: Denise A. Pitts and Henry W. Ruby			Telephone No. 531-1229			Project Coordinator: Joan H. Kessler			Data Turnaround:		
Pyrolysis: T3613			Sampling Location: 303M Area			SPECIAL INSTRUCTIONS: All relevant COAs must be provided: R-303M O J451 ANALYSIS METHOD (SPECIFIC): NIOSH 7300			SAF No. RC-001			24 HOUR		
Type of Sample: Wipes and air			Wipe Sample Media: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Preservation (i.e., cooling required, etc.):			No			No		
Shipped To: DuPont Chem			Other: <input type="checkbox"/> No			MATRIX: A - AIR, W1 - WIFE, X - OTHER			No			No		
East Lake City			Other: <input type="checkbox"/> No			PRESERVATION (i.e., cooling required, etc.):			No			No		
SPECIAL SAMPLE HANDLING/STORAGE: Bx Po, Cd			Other: <input type="checkbox"/> No			MATRIX: A - AIR, W1 - WIFE, X - OTHER			No			No		
Special Handling and/or Storage: NA			Other: <input type="checkbox"/> No			PRESERVATION (i.e., cooling required, etc.):			No			No		
SAMPLE ANALYSIS														
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area (sq. ft.)	Comments	Adhesive Airborne	Lead Airborne	Beryllium Airborne	Mold	Lead Wipe	Cd Wipe	Cd Airborne	Other		
J10Y96	W1	1-24-06	100cm ²	NA										
J10Y95	W1	1-24-06	100cm ²	NA										
J10Y94	W1	1-24-06	NA	Blank										
J10Y93	W1	1-24-06	NA	Blank										
J10XLD	A	1-24-06	176	personal										
J10RTI	A	1-24-06	NA	Blank										
J10WN8	A	1-24-06	NA	Blank										
J10Y97														
J10Y98														
J10Y99														
J10Y00														

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WCH-SH-202 (08/29/2005)



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: Yetta Jones	Company Contact Denise A. Pitts and Henry W. Ruby	Telephone No. 531-1229	Project Coordinator Joan H. Kessner		Data Turnaround								
Payroll #: 73613	Sampling Location 300 Area	SPECIAL INSTRUCTIONS All relevant COAs must be provided:		SAF No. RC-001		24 HOUR							
Type of Sample: Wipes and air	303M Building	R303M0 J451 ANALYSIS METHOD (SPECIFIC): NIOSH 7300		Method of Shipment FED EX									
Shipped To: Date Chem Salt Lake City	Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other _____	Bill of Lading/Air Bill No. 8544 9435 4678											
POSSIBLE SAMPLE HAZARD/REMARKS Bc, Pb, Cd		MATRIX A - AIR WI - WIPE X - OTHER	Preservation (i.e., cooling required, etc.)	No	No	No	No	No	No	No	No	YJ	
Special Handling and/or Storage NA				No	No	No	No	No	No	No			
SAMPLE ANALYSIS					Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne	
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area _____ cm ²	Comments									
J10Y96	WI	1-24-06	100cm ²	NA				X		X	X		
J10Y95	WI	1-24-06	100cm ²	NA				X		X	X		
J10Y94	WI	1-24-06	NA	Blank				X		X	X		
J10Y93	WI	1-24-06	NA	Blank				X		X	X		
J10XLD	A	1-24-06	176	personal	na	X	X					X	na
J10RT1	A	1-24-06	NA	Blank	na	X	X					X	na
J10WV8	A	1-24-06	NA	Blank	na	X	X					X	na
				YJ									
				1-24-06									

Enter on line below the first Sample Number from Page One:

J10496

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SIGN / PRINT NAMES / USE MILITARY TIME

Relinquished By/Store:	DATE / TIME	Received By/Store:	DATE / TIME
<i>[Signature]</i> Yella Jones	1-24-06 1600	<i>[Signature]</i> 1-24-06 #3746 Bld. Rm 16, locked cabinet	1-24-06 1600
Relinquished By/Store:	DATE / TIME	Received By/Store:	DATE / TIME
locked cabinet Bldg #3746 Rm #16			
<i>[Signature]</i> Goldie Mathan	01-25-06 1440	<i>[Signature]</i> R2 Steffler R.J. Steff	1-25-06 / 1440
Relinquished By/Store:	DATE / TIME	Received By/Store:	DATE / TIME
<i>[Signature]</i> R2 Steffler R.J. Steff	WLT 1-25-06 / 1530	Fed Ex	
Relinquished By/Store:	DATE / TIME	Received By/Store:	DATE / TIME
Relinquished By/Store:	DATE / TIME	Received By/Store:	DATE / TIME
Relinquished By/Store:	DATE / TIME	Received By/Store:	DATE / TIME
Relinquished By/Store:	DATE / TIME	Received By/Store:	DATE / TIME
Relinquished By/Store:	DATE / TIME	Received By/Store:	DATE / TIME
Relinquished By/Store:	DATE / TIME	Received By/Store:	DATE / TIME
LABORATORY SECTION	Received By	Title	DATE / TIME

COPY

FIELD SAMPLE COPY

REVIEWED BY:

PRINT/SIGN NAME

DATE: